

Abstract of the Disclosure

A span between an optical transmitting end station and an optical repeater node, a span between optical
5 repeater nodes, a span between an optical repeater node and a receiving end station, and a span between an optical
repeater node and a CN/OADM/HUB node are set as first dispersion compensation sections. Additionally, a span
between the optical transmitting end station and a
10 CN/OADM/HUB node, a span between CN/OADM/HUB nodes, and
a span between a CN/OADM/HUB node and the receiving end
station are set as second dispersion compensation
sections. In the first dispersion compensation sections,
dispersion compensation is made so that residual
15 dispersion becomes a predetermined negative value. In
the second dispersion compensation sections, dispersion
compensation is made so that residual dispersion becomes
a positive value.